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Re: Filing: Request for Certificate of Correction of Patent
Patent No.: 6,269,642
Granted: 08/07/2001
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Practitioner's Docket No. 90098008

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Number: 6,269,642
Issued: August 7, 2001
Name of Patentee: Steven Don Arnold et al.

Title of Invention: Variable Geometry Turbocharger

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

**REQUEST FOR CERTIFICATE OF CORRECTION OF PATENT
FOR APPLICANT'S MISTAKE (37 C.F.R. section 1.323)**

1. It is noted that errors appears in this patent of a typographical / clerical nature , as more fully described below. It occurred in good faith. Correction thereof does not involve such changes in the patent as would constitute new matter or would require re-examination. A certificate of correction is requested.
2. Attached hereto, in duplicate, is Form PTO-1050, with at least one copy being suitable for printing.
3. The exact page and line number where the error occurs in the application file are:

Abstract (57) - Line 5
Page 1, Column 1, Line 57
Page 4, Column 2, Line 23
Page 5, Column 1, Line 1
Page 5, Column 1, Line 24
Page 6, Column 2, Line 9
Page 6, Column 2, Line 25
Page 7, Column 1, Line 6
Page 7, Column 1, Line 11
Page 8, Column 2, Line 2

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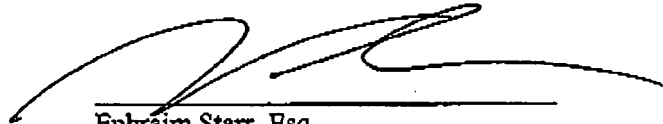
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5. Please pay the fee required by 37 C.F.R. § 1.20(a), as follows:

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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 6,269,642

DATED : August 7, 2001

INVENTOR(S) : Steven Don Arnold; Steven P. Martin; Kevin Slupski; Voytek Kanigowski

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Abstract (57) - Line 5: replace "the" with --and-- after "opening"
 Column 1, Line 57: add the word --is-- after "shaft"
 Column 4, Line 23: replace "exceed" with --exceeding--
 Column 5, Line 1: replace "engagement" with --engaging--
 Column 5, Line 24: replace "an" with --on--
 Column 6, Line 9: add --,(comma) after the word "outlet"
 Column 6, Line 25: replace "incision" with --unison--
 Column 7, Line 6: replace "an" with --a--
 Column 7, Line 11: add the word --the-- after "communication with"
 Column 8, Line 2: add the word --with-- after "communicating"

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US006269642B1

(12) United States Patent

Arnold et al.

(10) Patent No.: US 6,269,642 B1**(45) Date of Patent: Aug. 7, 2001****(54) VARIABLE GEOMETRY TURBOCHARGER**

(75) Inventors: Steven Don Arnold, Rancho Palos Verdes; Steven P. Martin, West Covina; Kevin Slupski, Redondo Beach; Voytek Kanigowski, Fountain Valley, all of CA (US)

(73) Assignee: AlliedSignal Inc., Morristown, NJ (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: 09/408,694

(22) Filed: Sep. 30, 1999

Related U.S. Application Data

(60) Provisional application No. 60/103,063, filed on Oct. 5, 1998.

(51) Int. Cl.: F02D 23/00

(52) U.S. Cl.: 60/602; 415/163; 415/164; 92/33; 92/136

(58) Field of Search: 415/164, 163, 415/160; 92/33, 136; 60/602

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Assistant Examiner—Thai-Ba Trieu

(74) Attorney, Agent, or Firm—Felix L. Fischer

(57) ABSTRACT

A variable geometry turbocharger employs multiple vanes in the turbine inlet with a unison ring and integral cast wall in the turbine housing forming the nozzle walls. The unison ring incorporates actuation slots receiving tabs on the vanes for opening the closing the nozzle area upon rotation of the unison ring. An integral electrohydraulic actuator rotates the unison ring through a rack and pinion driven crank shaft with direct position feedback to the spring biased variable current solenoid via a cam on the crank shaft.

7 Claims, 15 Drawing Sheets

